

pores are distributed throughout in each of the at least one silencing board. The silencing board is mounted in an orientation perpendicular to the direction of the airflow through the exhaust channel. The total passage area of the pores is less than half of the cross-sectional area of the exhaust channel. The diameter of each pore in the silencing board is less than 6 mm, and wherein the thickness of the silencing board is larger than 0.5 mm.

The invention provides the following advantages:

1. In the invention, one or more silencing boards are mounted in the exhaust channel, which can effectively diminish the noise generated by a vacuum cleaner in operation.

2. The silencing board(s) of the invention can be directly mounted in the exhaust channel, or be mounted in an expansion chamber connected to the exhaust channel. The latter with the silencing board(s) mounted within an expansion chamber will obtain a better effect of noise reduction.

Brief Description of the Drawings:

Fig. 1 is a sectional view schematically illustrating a silencer for a vacuum cleaner according to the preferred embodiment of the present invention, wherein:

the numeral 1 denotes a silencing board, 2 denotes pores, and 3 denotes an exhaust channel.

Detailed Description of the Preferred Embodiment

The invention is described bellow with reference to the preferred embodiment of the invention shown in Fig. 1.

As shown in Fig. 1, a silencer for a vacuum cleaner comprises three silencing boards 1 mounted in the exhaust channel 3. The silencing boards 1 are generally made of plastic material or metal. A plurality of pores 2 are distributed throughout in each of the silencing boards 1. Each of the silencing board 1 is mounted in an orientation perpendicular to the direction of the airflow passing through the exhaust channel 3. The total passage area of the pores 2 in each of the silencing boards 1 is

less than half of the cross-sectional area of the exhaust channel 3. The diameter of each of the pores 2 in the silencing boards 1 are less than 6 mm and the thickness of each of the silencing boards 1 is larger than 0.5 mm.

In the invention, one or more silencing boards 1 are mounted in the exhaust channel 3, which can effectively reduce the noise generated by a vacuum cleaner in operation. The silencing board(s) 1 of the invention can be directly mounted in the exhaust channel 3, or be mounted in an expansion chamber connected to the exhaust channel 3. The latter with the silencing board(s) mounted within an expansion chamber will obtain a better effect of noise reduction.